

What is claimed is:

1. An air bag apparatus for side crash,
comprising:

an acceleration sensor which detects
acceleration in a side direction larger than a

5 predetermined value to generate a detection signal;

an inflater which generates a gas in response
to said detection signal; and

an air bag which is folded initially, and
expands with said gas, wherein said air bag comprises
10 a main section and a protrusion section which is
provided at a tip portion of said main section such
that an inner space of said protrusion section is
connected with an inner space of said main section,
said protrusion section having at least one opening
15 from which said gas is spouted.

2. The air bag apparatus according to claim 1,
wherein said protrusion section has a pipe shape with
openings at opposing ends.

3. The air bag apparatus according to claim 1,
wherein said protrusion section has said at least one
opening in a portion connected with said main section.

4. The air bag apparatus according to claim 1,
wherein said protrusion section is pushed into the

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inner space of said main section initially.

5. The air bag apparatus according to claim 1, wherein said protrusion section is pushed into the inner space of said main section initially such that said protrusion section is turned inside out.

6. The air bag apparatus according to claim 1, wherein said main section comprises first and second side panels, which are sewed in a limb portion such that outer surfaces of said first and second side
5 panels are joined to each other.

7. The air bag apparatus according to claim 1, wherein said air bag has at least one partition provided in said inner space of said main section.

8. The air bag apparatus according to claim 7, wherein said at least one partition is formed by sewing a predetermined portion of said first and second side panels.

9. The air bag apparatus according to claim 8, wherein said predetermined portion is a curved line.

10. The air bag apparatus according to claim 8, wherein said predetermined portion is a circle.

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11. The air bag apparatus according to claim 8, wherein said predetermined portion is a semicircle.

12. The air bag apparatus according to claim 7, wherein said predetermined portion is provided to determine an expansion direction of said air bag during an expanding process.

13. An air bag apparatus for side crash, comprising:

an acceleration sensor which detects acceleration in a side direction larger than a

5 predetermined value to generate a detection signal;

an inflator which generates a gas in response to said detection signal; and

an air bag which is folded initially, and expands with said gas, wherein said air bag has at
10 least one partition provided in an inner space of said air bag.

14. The air bag apparatus according to claim 13, wherein said air bag comprises first and second side panels, which are sewed in a limb portion such that outer surfaces of said first and second side panels
5 are joined to each other.

15. The air bag apparatus according to claim 13,

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wherein said at least one partition is formed by sewing a predetermined portion of said first and second side panels.

16. The air bag apparatus according to claim 15, wherein said predetermined portion is a curved line.

17. The air bag apparatus according to claim 15, wherein said predetermined portion is a circle.

18. The air bag apparatus according to claim 15, wherein said predetermined portion is a semicircle.

19. The air bag apparatus according to claim 13, wherein said predetermined portion is provided to determine an expansion direction of said air bag during an expanding process.

20. An air bag used for an air bag apparatus for side crash, comprising:

a main section; and

a protrusion section which is provided at a tip

5 portion of said main section such that an inner space of said protrusion section is connected with an inner space of said main section,

wherein said air bag is folded initially, and expands with a gas from an inflater, and said

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10 protrusion section has at least one opening from which said gas is spouted.

21. The air bag according to claim 20, wherein said protrusion section has a pipe shape with openings at opposing ends.

22. The air bag according to claim 20, wherein said protrusion section has said opening in a portion connected with said main section.

23. The air bag according to claim 20, wherein said protrusion section is pushed into the inner space of said main section initially.

24. The air bag according to claim 20, wherein said protrusion section is pushed into the inner space of said main section initially such that said protrusion section is turned inside out.

25. An air bag used for an air bag apparatus for side crash, comprising first and second side panels, wherein said first and second side panels are sewed in a limb portion such that outer surfaces of
5 said first and second side panels are joined to each other, and wherein said air bag further comprises at least

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one partition provided in an inner space of said air bag, said air bag which is folded initially, and
10 expands with gas supplied from an inflater.

26. The air bag apparatus according to claim 25, wherein said at least one partition is formed by sewing a predetermined portion of said first and second side panels.

27. The air bag apparatus according to claim 25, wherein said predetermined portion is a curved line.

28. The air bag apparatus according to claim 25, wherein said predetermined portion is a circle.

29. The air bag apparatus according to claim 25, wherein said predetermined portion is a semicircle.

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